

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: **Brett P. Monia et al.**

Serial No.: **Not yet assigned**

Group Art Unit: **1635**

Filed: **Concurrently herewith**

Examiner: **Janet L. Epps Ford**

Title: **ANTISENSE MODULATION OF DUAL SPECIFIC PHOSPHATASE 6 EXPRESSION**

**EXPRESS MAIL INFORMATION**

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

**S I R :**

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the attached PTO-1449 forms submitted herewith.

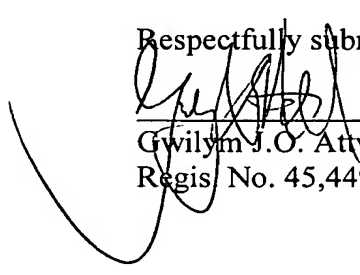
Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

Copies of the references cited on the attached PTO-1449 and PTO-892 forms can be found in the parent case, U.S. Serial No. 10/199,221, filed July 18, 2002.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

No first Official Action has yet been received and it is presumed that none has yet been mailed. No fee or certification is required. 37 C.F.R. § 1.97(b).

Respectfully submitted,



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Gwilym J.O. Attwell  
Regis. No. 45,449

Enclosures:

PTO-1449 (2 sheets)

PTO-892 (1 sheet)

Dated: February 9, 2004

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PTO  
10/199221  
07/18/02

<b>Form PTO-1449 Modified</b>  List of Patents and Publications Cited by Application (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office		Docket No. PTS-0009  Applicant Brett P. Monia et al.  Filing Date herewith	Serial No. <del>not yet assigned</del> <u>10/199,221</u>  Group <u>163 5</u>
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
94	AA	Camps et al., Induction of the mitogen-activated protein kinase phosphatase MKP3 by nerve growth factor in differentiating PC12, FEBS Lett., 1998, 425:271-276	
1	AB	Furukawa et al., Genomic analysis of DUSP6, a dual specificity MAP kinase phosphatase, in pancreatic cancer, Cytogenet. Cell Genet., 1998, 82:156-159	
1	AC	Hirabayashi et al., Conditional expression of the dual-specificity phosphatase PYST1/MKP-3 inhibits phosphorylation of cytosolic phospholipase A2 in Chinese hamster ovary cells, Biochem. Biophys. Res. Commun., 1998, 253:485-488	
1	AD	Keyse, Protein phosphatases and the regulation of mitogen-activated protein kinase signalling, Current Opinion in Cell Biology, 2000, 12:186-192	
1	AE	Muda et al., MKP-3, a novel cytosolic protein-tyrosine phosphatase that exemplifies a new class of mitogen-activated protein kinase phosphatase, J. Biol. Chem., 1996, 271:4319-4326	
1	AF	Reffas et al., Compartment-specific regulation of extracellular signal-regulated kinase (ERK) and c-Jun N-terminal kinase (JNK) mitogen-activated protein kinases (MAPKs) by ERK-dependent and non-ERK-dependent inductions of MAPK phosphatase (MKP)-3 and MKP-1 in differentiating P19 cells, Biochem. J., 2000, 352:701-708	
1	AG	Rice et al., A targeted library of small-molecule, tyrosine, and dual-specificity phosphatase inhibitors derived from a rational core design and random side chain variation, Biochemistry, 1997, 36:15965-15974	
1	AH	Rossig et al., Nitric oxide down-regulates MKP-3 mRNA levels: involvement in endothelial cell protection from apoptosis, J. Biol. Chem., 2000, 275:25502-25507	
1, 67	AI	Smith et al., Chromosomal localization of three human dual specificity phosphatase genes (DUSP4, DUSP6, and DUSP7), Genomics, 1997, 42:524-527	
EXAMINER <u>Christy L. Ford</u>		DATE CONSIDERED <u>5-07-03</u>	

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DOCKET NO.: PTS-0009

<b>Form PTO-1449 Modified</b>  List of Patents and Publications Cited by Application (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office		Docket No. PTS-0009	Serial No. not yet assigned
		Applicant Brett P. Monia et al.	
		Filing Date herewith	Group <div style="text-align: center; font-size: 1.2em;">1635</div>
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
<div style="font-size: 1.5em;">6</div>	AJ	Toyota et al., Association study on the DUSP6 gene, an affective disorder candidate gene on 12q23, performed by using fluorescence resonance energy transfer-based melting curve analysis on the LightCycler, Mol. Psychiatry, 2000, 5:489-494	
EXAMINER <i>Justin E. Ford</i>		DATE CONSIDERED 5-7-03	

<b>Notic of References Cited</b>	Application/Control N 10/199,221	Applicant(s)/Patent Under Reexamination MONIA ET AL.	
	Examiner Janet L. Epps-Ford	Art Unit 1635	Page 1 of 1

#### U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-6,114,517	09-2000	Monia et al.	536/24.5
	B	US-6,436,642	08-2002	Gould-Rothberg et al.	435/6
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

#### FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

#### NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Agrawal et al. Antisense therapeutics: is it as simple as complementary base recognition? Molecular Medicine Today, February 2000, Vol. 6, pages 72-80.
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.